



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

KIRIL A. PANDELISEV

Art Unit 1765

Serial No. 10/086,624

Filed: March 4, 2002

For: BINARY AND TERNARY CRYSTAL PURIFICATION AND GROWTH  
METHOD AND APPARATUS

**RESPONSE**

To the Director of the Patent and Trademark Office

Sir:

In response to the attached Notice to File Missing Parts of Nonprovisional Application dated March 19, 2002, kindly accept the attached Power of Attorney, Statement Under 37 CFR 3.73(b) and Declaration for the above-identified application.

A check for \$1,299.00 is also attached to cover the basic filing fee (\$370.00), 68 extra claims (\$612.00), 6 extra independent claims (\$252.00) and government surcharge for filing missing parts (\$65.00).

Respectfully,

James C. Wray, Reg. No. 22,693  
Meera P. Narasimhan, Reg. No. 40,252  
1493 Chain Bridge Road  
Suite 300  
McLean, Virginia 22101  
Tel: (703) 442-4800  
Fax: (703) 448-7397

March 29, 2002



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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KIRIL A. PANDELISEV

Art Unit 1765

Serial No. 10/086,624

Filed: March 4, 2002

For: BINARY AND TERNARY CRYSTAL PURIFICATION AND GROWTH  
METHOD AND APPARATUS

**LETTER**

To the Director of the Patent and Trademark Office

Sir:

Kindly accept and enter the attached corrected Utility  
Patent Application Transmittal, which includes in Section 18 the  
continuation-in-part information.

Respectfully,

James C. Wray, Reg. No. 22,693  
Meera P. Narasimhan, Reg. No. 40,252  
1493 Chain Bridge Road  
Suite 300  
McLean, Virginia 22101  
Tel: (703) 442-4800  
Fax: (703) 448-7397

March 29, 2002

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APR 11 2002

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APR 01 2002

TC 1700



## UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS  
 UNITED STATES PATENT AND TRADEMARK OFFICE  
 WASHINGTON, D.C. 20231  
 www.uspto.gov

APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
10/086,624	03/04/2002	Kiril A. Pandelisev	OPTOSCINT

## CONFIRMATION NO. 6909

## FORMALITIES LETTER



\*OC000000007672579\*

James C. Wray  
 Suite 300  
 1493 Chain Bridge Road  
 McLean, VA 22101

Date Mailed: 03/19/2002

## NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

## FILED UNDER 37 CFR 1.53(b)

*Filing Date Granted*

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The statutory basic filing fee is missing.  
*Applicant must submit \$ 370 to complete the basic filing fee for a small entity.*
- Total additional claim fee(s) for this application is \$864.
  - \$612 for 68 total claims over 20.
  - \$252 for 6 independent claims over 3 .
- The oath or declaration is missing.  
*A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date, is required.*
- To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(l) of \$65 for a small entity in compliance with 37 CFR 1.27, must be submitted with the missing items identified in this letter.
- **The balance due by applicant is \$ 1299.**

*A copy of this notice MUST be returned with the reply.*

Customer Service Center

Initial Patent Examination Division (703) 308-1202

PART 2 - COPY TO BE RETURNED WITH RESPONSE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

# OFFICE TRANSMITTAL

**for FY 2002**

Fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 1,299.00)

## Complete if Known

Application Number	10/086,624
Filing Date	03/04/2002
First Named Inventor	PANDELISEV
Examiner Name	
Group Art Unit	1765
Attorney Docket No.	OPTOSCINT

## METHOD OF PAYMENT (check all that apply)

 Check  Credit card  Money Order  Other  None

 Deposit Account:

Deposit Account Number	
Deposit Account Name	

The Commissioner is authorized to: (check all that apply)

Charge fee(s) indicated below  Credit any overpayments  
 Charge any additional fee(s) during the pendency of this application  
 Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

## FEE CALCULATION

## 1. BASIC FILING FEE

Large Entity	Small Entity	Fee Description	Fee Paid
Fee Code (\$)	Fee Code (\$)		
101 740	201 370	Utility filing fee	370
106 330	206 165	Design filing fee	
107 510	207 255	Plant filing fee	
108 740	208 370	Reissue filing fee	
114 160	214 80	Provisional filing fee	
SUBTOTAL (1)		(\$ 370.00)	

## 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

	Extra Claims	Fee from below	Fee Paid
Total Claims	88	-20** =	68 x \$9 = 612
Independent Claims	9	- 3*** =	6 x \$42 = 252
Multiple Dependent			

Large Entity	Small Entity	Fee Description
Fee Code (\$)	Fee Code (\$)	
103 18	203 9	Claims in excess of 20
102 84	202 42	Independent claims in excess of 3
104 280	204 140	Multiple dependent claim, if not paid
109 84	209 42	** Reissue independent claims over original patent
110 18	210 9	** Reissue claims in excess of 20 and over original patent
SUBTOTAL (2)		(\$ 864.00)

\*\*or number previously paid, if greater. For Reissues, see above

## 3. ADDITIONAL FEES

Large Entity Small Entity

Fee Code (\$)	Fee (\$)	Fee Code (\$)	Fee (\$)	Fee Description	Fee Paid
105 130	205 65	205 65	205 65	Surcharge - late filing fee or oath	65
127 50	227 25	227 25	227 25	Surcharge - late provisional filing fee or cover sheet	
139 130	139 130	139 130	139 130	Non-English specification	
147 2,520	147 2,520	147 2,520	147 2,520	For filing a request for ex parte reexamination	
112 920*	112 920*	112 920*	112 920*	Requesting publication of SIR prior to Examiner action	
113 1,840*	113 1,840*	113 1,840*	113 1,840*	Requesting publication of SIR after Examiner action	
115 110	215 55	215 55	215 55	Extension for reply within first month	
116 400	216 200	216 200	216 200	Extension for reply within second month	
117 920	217 460	217 460	217 460	Extension for reply within third month	
118 1,440	218 720	218 720	218 720	Extension for reply within fourth month	
128 1,960	228 980	228 980	228 980	Extension for reply within fifth month	
119 320	219 160	219 160	219 160	Notice of Appeal	
120 320	220 160	220 160	220 160	Filing a brief in support of an appeal	
121 280	221 140	221 140	221 140	Request for oral hearing	
138 1,510	138 1,510	138 1,510	138 1,510	Petition to institute a public use proceeding	
140 110	240 55	240 55	240 55	Petition to revive - unavoidable	
141 1,280	241 640	241 640	241 640	Petition to revive - unintentional	
142 1,280	242 640	242 640	242 640	Utility issue fee (or reissue)	
143 460	243 230	243 230	243 230	Design issue fee	
144 620	244 310	244 310	244 310	Plant issue fee	
122 130	122 130	122 130	122 130	Petitions to the Commissioner	
123 50	123 50	123 50	123 50	Processing fee under 37 CFR 1.17(q)	
126 180	126 180	126 180	126 180	Submission of Information Disclosure Stmt	
581 40	581 40	581 40	581 40	Recording each patent assignment per property (times number of properties)	
146 740	246 370	246 370	246 370	Filing a submission after final rejection (37 CFR § 1.129(a))	
149 740	249 370	249 370	249 370	For each additional invention to be examined (37 CFR § 1.129(b))	
179 740	279 370	279 370	279 370	Request for Continued Examination (RCE)	
169 900	169 900	169 900	169 900	Request for expedited examination of a design application	
Other fee (specify) _____					
*Reduced by Basic Filing Fee Paid				SUBTOTAL (3)	(\$ 65.00)

Other fee (specify) \_\_\_\_\_

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 65.00)

## SUBMITTED BY

Name (Print/Type)	James C. Wray	Registration No. (Attorney/Agent)	22,693	Telephone	(703) 442-4800
Signature	CCW			Date	03/29/2002

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Burden Hour Statement. This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

CORRECTED

PTO/SB/06 (11-00)

Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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UTILITY  
PATENT APPLICATION  
TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	OPTOSCINT
First Inventor	PANDELISEV
Title	Binary & Ternary Crystal Purification and Growth Method...
Express Mail Label No.	

## APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO: Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 202317.  CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)

8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)

a.  Computer Readable Form (CRF)

b. Specification Sequence Listing on:

I.  CD-ROM or CD-R (2 copies); orII.  paperc.  Statements verifying identity of above copies

## ACCOMPANYING APPLICATION PARTS

9.  Assignment Papers (cover sheet & document(s))10.  37 CFR 3.73(b) Statement  Power of Attorney (when there is an assignee)11.  English Translation Document (if applicable)12.  Information Disclosure Statement (IDS)/PTO-1449  Copies of IDS Citations13.  Preliminary Amendment14.  Return Receipt Postcard (MPEP 503) (Should be specifically itemized)15.  Certified Copy of Priority Document(s) (if foreign priority is claimed)16.  Request and Certification under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.17.  Other: .....1.  Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing)2.  Applicant claims small entity status. See 37 CFR 1.27.

3.  Specification [Total Pages 46] (preferred arrangement set forth below)

- Descriptive title of the invention
- Cross Reference to Related Applications
- Statement Regarding Fed sponsored R & D
- Reference to sequence listing, a table, or a computer program listing appendix
- Background of the Invention
- Brief Summary of the Invention
- Brief Description of the Drawings (if filed)
- Detailed Description
- Claim(s)
- Abstract of the Disclosure

4.  Drawing(s) (35 U.S.C. 113) [ Total Sheets 10 ]

5. Oath or Declaration [ Total Pages ]

a.  Newly executed (original or copy)  
Copy from a prior application (37 CFR 1.63 (d)) (for continuation/divisional with Box 18 completed)

i.  DELETION OF INVENTOR(S)

Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).

6.  Application Data Sheet. See 37 CFR 1.76

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

 Continuation  Divisional  Continuation-in-part (CIP)

of prior application No. 10,011,762

Group Art Unit 1765

Prior application information:

Examiner \_\_\_\_\_

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

## 19. CORRESPONDENCE ADDRESS

 Customer Number or Bar Code Label [REDACTED]or  Correspondence address below

APR 01 2002

[REDACTED]

RECEIVED

Name	James C. Wray		
Address	1493 Chain Bridge Road		
	Suite 300		
City	McLean	State	VA
Country	US	Telephone	(703) 442-4800
Zip Code	22101		
Fax	(703)449-7397		

Name (Print/Type)	Meera P. Narasimhan	Registration No. (Attorney/Agent)	40,252
Signature	<i>Meera P. Narasimhan</i>	Date	03/04/2002

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231



71 34

PTO/SB/35 (11-00)

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U.S. Patent and Trademark Office; U. S. DEPARTMENT OF COMMERCE

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**REQUEST AND CERTIFICATION  
UNDER  
35 U.S.C. 122(b)(2)(B)(i)**

First Named Inventor

PANDELISEV

Title Binary and Ternary Crystal Purification  
and Growth Method and Apparatus

Atty Docket Number OPTOSCINT

I hereby certify that the invention disclosed in the attached application **has not and will not be** the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing. I hereby request that the attached application not be published under 35 U.S.C. 122(b).

March 7, 2002

Date

Kiril A. Pandelisev

Signature

Kiril A. Pandelisev, CEO & Chief  
Science Officer, Optoscint, Inc.

Typed or printed name

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application **upon filing**.

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant **must** notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. **Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).**

Burden Hour Statement: This collection of information is required by 37 CFR 1.213(a). The information is used by the public to request that an application not be published under 35 U.S.C. 122(b) (and the PTO to process that request). Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This form is estimated to take 6 minutes to complete. This time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.